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[007] From DE 37 11 490 C2 is known besides a gear selector device in which the sliding sleeve is axially moved not by a shift fork radially engaging from the outside but by means of a hydraulic device actuated from the inside, via axial ~~[[holes]]~~ holes extending within the transmission shaft. Thereby the radial height of this gear selector device is advantageously reduced. This solution thus has advantages regarding the weight and the number of mechanical parts needed. A disadvantage consists in there being provided in the transmission shaft holes for the pressurized oil and pistons actuated by an oil pressure for the axial movement of the sliding sleeve. That is relatively expensive functionally and requires a large shaft diameter.